

Application No.: 10/664,764
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12. Solubility Testing:

(a) Inventive Salt Preparation

A saccharin salt was formed by dissolving 0.05 mol of the acid form of saccharin (saccharin H) with 0.05 mol of arginine in 70 ml of water (at pH 7.4) at room temperature (23°C) with stirring for 30 minutes, which resulted in a clear solution. Afterwards the solution was dried under vacuum in a rotary evaporator. The dried residue was then further dried in a vacuum oven for 20 hr at 50°C until constant weight.

An acesulfame salt was formed by dissolving 0.05 mol of the acid form of acesulfame (acesulfame H) with 0.05 mol of histidine in 70 ml of water (at pH 7.4) at room temperature (23°C) with stirring for 30 minutes, which likewise resulted in a clear solution. Afterwards the solution was dried under vacuum in a rotary evaporator. The dried residue was then further dried in a vacuum oven for 20 hr at 50°C until constant weight.

The materials and absolute amounts used in the inventive salt formation described above are provided in Table 1 below:

TABLE 1:

<i>Material used:</i>	<i>amount used</i>
Saccharine Acid (Fluka, Art. Nr. 12475)	9.16 g
Acesulfamic acid (Nutrinova)	8.16 g
L-Histidine (Merck, Art. Nr. 1.04351)	7.76 g
L-Arginine (Fluka, Art. Nr. 11010)	8.71 g

(b) Comparative Mixture Formation

Comparative mixtures (i) and (ii) were formed by blending (i) 0.05 mol of sodium saccharin (commercially available from FluKa) with 0.05 mol of arginine and (ii) 0.05 acesulfame potassium (commercially